



PATENT  
Customer No. 22,852  
Attorney Docket No. 3495.0010-24

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: )  
)  
Marc ALIZON et al. ) Group Art Unit: 1637  
)  
Application Ser. No.: 08/475,822 ) Examiner: Jeffrey N. FREDMAN  
)  
Filed: June 7, 1995 ) Confirmation No.: 4214  
)

For: CLONED DNA SEQUENCES RELATED TO THE GENOMIC RNA OF  
LYMPHADENOPATHY-ASSOCIATED VIRUS (LAV) AND PROTEINS  
ENCODED BY SAID LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**REQUEST TO CORRECT INVENTORSHIP**

Pursuant to 37 C.F.R. § 1.48, applicants request that the inventorship in this  
application be corrected as follows.

Pursuant to 37 C.F.R. § 1.48 (b), please delete the following inventors from this  
application:

Marc Alizon,  
Pierre Sonigo,  
Simon Wain-Hobson,  
Stewart Cole, and  
Oliver Danos.

06/06/2006 SZEWDIE1 00000025 00475822

05 FC:1464

130.00 0P

Prosecution of this application has resulted in amendment of the claims so that  
the above-named inventors' invention is no longer being claimed in this application.

Pursuant to 37 C.F.R. § 1.48 (c), please add the following inventors to this application:

Robert C. Gallo,  
Milkulas Popovic,  
Mangalasseril G. Sarngadharan,  
Solange Chamaret,  
Claudine Axler-Bin,  
Francoise Rey,  
Marie-Therese Nugeyre,  
Jacqueline Gruet,  
Charles Dauget,  
Willy Rozenbaum,  
Christine Rouzioux,  
Francoise Brun-Vezinet,  
Luc Montagnier,  
Jean-Claude Chermann, and  
Francoise Barre-Sinoussi.

The addition of the above-named inventors is necessitated by amendment of the claims during prosecution of this application.

A statement from each person being added as an inventor that the addition is necessitated by amendment of the claims and that the inventorship error occurred without deceptive intent is enclosed.

A Declaration by each of the actual inventors is enclosed. One copy of the application is enclosed although each Declaration was attached to a copy of the application when it was executed. The duplicate copies of the application have been removed to reduce the size of the submission, but will be provided by applicants if the Examiner requires them.

The written consent of each of the assignees is enclosed.

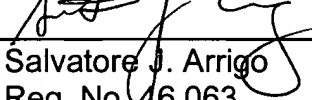
A check for \$130.00 under § 1.17(c) is enclosed.

Please grant any extensions of time required to enter this response and charge any additional required fees to our deposit account 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

Dated: June 5, 2006

By:   
Salvatore J. Arrigo  
Reg. No. 46,063  
Telephone: 202-408-4160  
Facsimile: 202-408-4400  
E-mail: arrigos@finnegan.com



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For: CLONED DNA SEQUENCES  
RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-  
ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID  
LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**STATEMENT OF SOLANGE CHAMARET  
(Being Added As An Inventor)**

I have read U.S. application Serial No. 08/475,822.

I am informed that I was not named as an inventor in application Serial No. 08/475,822 when the application was filed in the U.S. Patent and Trademark Office.

I have been informed that the claims in U.S. application Serial No. 08/475,822 have been amended by adding claims 47, 51, and 52 to the application.

I am informed that a copy of claims 47, 51, and 52 is attached hereto.

I have read claims 47, 51, and 52, which I am informed were added to U.S. application Serial No. 08/475,822 to claim previously unclaimed subject matter.

I understand that I am being added as an inventor to U.S. application Serial No. 08/475,822.

I have been informed that my addition as an inventor to U.S. application Serial No. 08/475,822 is necessitated by the amendment of the claims by adding claims 47, 51, and 52 to the application.

The inventorship error resulting from the amendment of the claims by adding claims 47, 51, and 52 to U.S. application Serial No. 08/475,822 occurred without deceptive intention on my part.

I hereby declare that all statements made of my own knowledge and belief are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

By: S. Hamar

Date: 11-05-05



U.S. Patent Application No. 08/475,822

Filed: June 7, 1995

Inventors: Marc ALIZON et al.

Div. of 07/158,652 (02/22/88);

Div. of 06/771,248 (08/30/85);

CIP of 07/999,410 (12/31/92);

Cont. of 07/499,210 (03/19/90);

Cont. of 06/771,230 (08/30/85);

CIP of 06/706,562 (02/28/85);

CIP of 06/558,109 (012/05/83)

DI No. 84-37

Our Reference: 03495.0010-24000

### Pending Claims

47. An *in vitro* diagnostic method for detecting the presence of nucleic acid of a Human Immunodeficiency Virus Type 1 (HIV-1) in a biological sample comprising:

- (a) providing a cell-free supernatant of a biological fluid comprising cells infected with HIV-1, and
- (b) detecting HIV-1 nucleic acid present in said supernatant.

51. A method for preparing HIV-1 RNA for detecting the presence of nucleic acid of a Human Immunodeficiency Virus Type 1 (HIV-1) in a biological sample comprising:

- (a) providing a biological fluid comprising HIV-1 infected cells;
- (b) preparing a cell-free supernatant from the biological fluid; and
- (c) disrupting HIV-1 virions in the cell-free supernatant to release HIV-1 RNA.

52. The method of claim 51, further comprising detecting the HIV-1 RNA.



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RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-  
ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID  
LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**STATEMENT OF CLAUDINE AXLER-BLIN**  
**(Being Added As An Inventor)**

I have read U.S. application Serial No. 08/475,822.

I am informed that I was not named as an inventor in application Serial No. 08/475,822 when the application was filed in the U.S. Patent and Trademark Office.

I have been informed that the claims in U.S. application Serial No. 08/475,822 have been amended by adding claims 47, 51, and 52 to the application.

I am informed that a copy of claims 47, 51, and 52 is attached hereto.

I have read claims 47, 51, and 52, which I am informed were added to U.S. application Serial No. 08/475,822 to claim previously unclaimed subject matter.

I understand that I am being added as an inventor to U.S. application Serial No. 08/475,822.

I have been informed that my addition as an inventor to U.S. application Serial No. 08/475,822 is necessitated by the amendment of the claims by adding claims 47, 51, and 52 to the application.

The inventorship error resulting from the amendment of the claims by adding claims 47, 51, and 52 to U.S. application Serial No. 08/475,822 occurred without deceptive intention on my part.

I hereby declare that all statements made of my own knowledge and belief are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

By: Claudia Axler

Date: 26 May 2006





U.S. Patent Application No. 08/475,822

Filed: June 7, 1995

Inventors: Marc ALIZON et al.

Div. of 07/158,652 (02/22/88);

Div. of 06/771,248 (08/30/85);

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DI No. 84-37

Our Reference: 03495.0010-24000

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- (a) providing a cell-free supernatant of a biological fluid comprising cells infected with HIV-1, and
- (b) detecting HIV-1 nucleic acid present in said supernatant.

51. A method for preparing HIV-1 RNA for detecting the presence of nucleic acid of a Human Immunodeficiency Virus Type 1 (HIV-1) in a biological sample comprising:

- (a) providing a biological fluid comprising HIV-1 infected cells;
- (b) preparing a cell-free supernatant from the biological fluid; and
- (c) disrupting HIV-1 virions in the cell-free supernatant to release HIV-1 RNA.

52. The method of claim 51, further comprising detecting the HIV-1 RNA.



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PROTEINS ENCODED BY SAID  
LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**STATEMENT OF FRANÇOISE REY  
(Being Added As An Inventor)**

I have read U.S. application Serial No. 08/475,822.

I am informed that I was not named as an inventor in application Serial No. 08/475,822 when the application was filed in the U.S. Patent and Trademark Office.

I have been informed that the claims in U.S. application Serial No. 08/475,822 have been amended by adding claims 47, 51, and 52 to the application.

I am informed that a copy of claims 47, 51, and 52 is attached hereto.

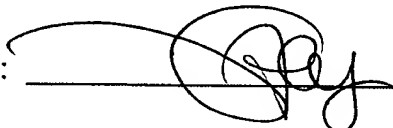
I have read claims 47, 51, and 52, which I am informed were added to U.S. application Serial No. 08/475,822 to claim previously unclaimed subject matter.

I understand that I am being added as an inventor to U.S. application Serial No. 08/475,822.

I have been informed that my addition as an inventor to U.S. application Serial No. 08/475,822 is necessitated by the amendment of the claims by adding claims 47, 51, and 52 to the application.

The inventorship error resulting from the amendment of the claims by adding claims 47, 51, and 52 to U.S. application Serial No. 08/475,822 occurred without deceptive intention on my part.

I hereby declare that all statements made of my own knowledge and belief are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

By:  \_\_\_\_\_

Date: 29 mar 2006



U.S. Patent Application No. 08/475,822

Filed: June 7, 1995

Inventors: Marc ALIZON et al.

Div. of 07/158,652 (02/22/88);

Div. of 06/771,248 (08/30/85);

CIP of 07/999,410 (12/31/92);

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DI No. 84-37

Our Reference: 03495.0010-24000

### Pending Claims

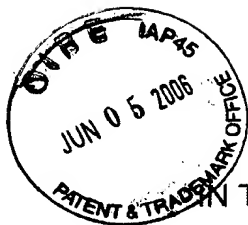
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- (a) providing a cell-free supernatant of a biological fluid comprising cells infected with HIV-1, and
- (b) detecting HIV-1 nucleic acid present in said supernatant.

51. A method for preparing HIV-1 RNA for detecting the presence of nucleic acid of a Human Immunodeficiency Virus Type 1 (HIV-1) in a biological sample comprising:

- (a) providing a biological fluid comprising HIV-1 infected cells;
- (b) preparing a cell-free supernatant from the biological fluid; and
- (c) disrupting HIV-1 virions in the cell-free supernatant to release HIV-1 RNA.

52. The method of claim 51, further comprising detecting the HIV-1 RNA.



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In re Application of:

Marc ALIZON et al.

Application No.: 08/475,822

Filed: June 7, 1995

For: CLONED DNA SEQUENCES  
RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-  
ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID  
LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**STATEMENT OF MARIE-THERESE NUGEYRE**  
**(Being Added As An Inventor)**

I have read U.S. application Serial No. 08/475,822.

I am informed that I was not named as an inventor in application Serial No.  
08/475,822 when the application was filed in the U.S. Patent and Trademark Office.

I have been informed that the claims in U.S. application Serial No. 08/475,822  
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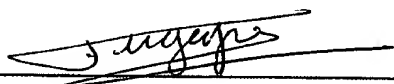
I have read claims 47, 51, and 52, which I am informed were added to U.S.  
application Serial No. 08/475,822 to claim previously unclaimed subject matter.

I understand that I am being added as an inventor to U.S. application Serial No. 08/475,822.

I have been informed that my addition as an inventor to U.S. application Serial No. 08/475,822 is necessitated by the amendment of the claims by adding claims 47, 51, and 52 to the application.

The inventorship error resulting from the amendment of the claims by adding claims 47, 51, and 52 to U.S. application Serial No. 08/475,822 occurred without deceptive intention on my part.

I hereby declare that all statements made of my own knowledge and belief are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

By: 

Date: May 29 2006



U.S. Patent Application No. 08/475,822

Filed: June 7, 1995

Inventors: Marc ALIZON et al.

Div. of 07/158,652 (02/22/88);

Div. of 06/771,248 (08/30/85);

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47. An *in vitro* diagnostic method for detecting the presence of nucleic acid of a Human Immunodeficiency Virus Type 1 (HIV-1) in a biological sample comprising:

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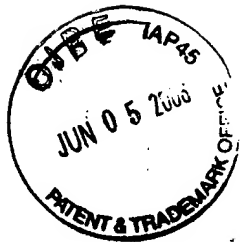
51. A method for preparing HIV-1 RNA for detecting the presence of nucleic acid of a Human Immunodeficiency Virus Type 1 (HIV-1) in a biological sample comprising:

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OF LYMPHADENOPATHY- )  
ASSOCIATED VIRUS (LAV) AND )  
PROTEINS ENCODED BY SAID )  
LAV GENOMIC RNA )

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**STATEMENT ON BEHALF OF JACQUELINE GRUEST**  
**(Being Added As An Inventor)**

I, JACQUES GRUEST, am the heir of the estate of JACQUELINE GRUEST, who is deceased.

I have been informed that Jacqueline Gruest was not named as an inventor in application Serial No. 08/475,822 when the application was filed in the U.S. Patent and Trademark Office.

I have been informed that the claims in U.S. application Serial No. 08/475,822 have been amended by adding claims 47, 51, and 52 to the application.

I have been informed that a copy of claims 47, 51, and 52 is attached hereto.



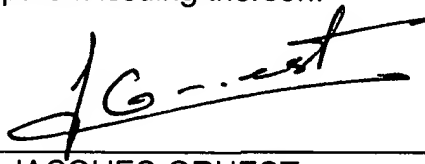
I have been informed that claims 47, 51, and 52 were added to U.S. application Serial No. 08/475,822 to claim previously unclaimed subject matter.

I have been informed that Jacqueline Gruet is being added as an inventor to U.S. application Serial No. 08/475,822.

I have been informed that the addition of Jacqueline Gruet as an inventor to U.S. application Serial No. 08/475,822 is necessitated by the amendment of the claims by adding claims 47, 51, and 52 to the application.

On information and belief, the inventorship error resulting from the amendment of the claims by adding claims 47, 51, and 52 to U.S. application Serial No. 08/475,822 occurred without deceptive intention on the part of Jacqueline Gruet.

I hereby declare that all statements made of my own knowledge and belief are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

By:   
JACQUES GRUEST  
Heir of the Estate of Jacqueline Gruet

Date: 25.05.2006



Patent Application No. 08/475,822

Filed: June 7, 1995

Inventors: Marc ALIZON et al.

Div. of 07/158,652 (02/22/88);

Div. of 06/771,248 (08/30/85);

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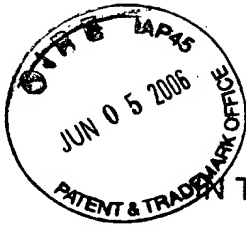
51. A method for preparing HIV-1 RNA for detecting the presence of nucleic acid of a Human Immunodeficiency Virus Type 1 (HIV-1) in a biological sample comprising:

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PROTEINS ENCODED BY SAID  
LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**STATEMENT OF CHARLES DAUGUET**  
**(Being Added As An Inventor)**

I have read U.S. application Serial No. 08/475,822.

I am informed that I was not named as an inventor in application Serial No. 08/475,822 when the application was filed in the U.S. Patent and Trademark Office.

I have been informed that the claims in U.S. application Serial No. 08/475,822 have been amended by adding claims 47, 51, and 52 to the application.

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I hereby declare that all statements made of my own knowledge and belief are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

By: Charles Dauguet

Date: 16 Mar 2006



U.S. Patent Application No. 08/475,822

Filed: June 7, 1995

Inventors: Marc ALIZON et al.

Div. of 07/158,652 (02/22/88);

Div. of 06/771,248 (08/30/85);

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51. A method for preparing HIV-1 RNA for detecting the presence of nucleic acid of a Human Immunodeficiency Virus Type 1 (HIV-1) in a biological sample comprising:

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PROTEINS ENCODED BY SAID  
LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**STATEMENT OF WILLY ROZENBAUM  
(Being Added As An Inventor)**

I have read U.S. application Serial No. 08/475,822.

I am informed that I was not named as an inventor in application Serial No. 08/475,822 when the application was filed in the U.S. Patent and Trademark Office.

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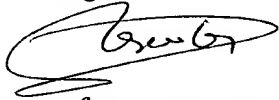
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I hereby declare that all statements made of my own knowledge and belief are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

By:   
Willy Brensman

Date: 25 May 2008



U.S. Patent Application No. 08/475,822  
Filed: June 7, 1995

Inventors: Marc ALIZON et al.

Div. of 07/158,652 (02/22/88);

Div. of 06/771,248 (08/30/85);

CIP of 07/999,410 (12/31/92);

Cont. of 07/499,210 (03/19/90);

Cont. of 06/771,230 (08/30/85);

CIP of 06/706,562 (02/28/85);

CIP of 06/558,109 (012/05/83)

DI No. 84-37

Our Reference: 03495.0010-24000

### Pending Claims

47. An *in vitro* diagnostic method for detecting the presence of nucleic acid of a Human Immunodeficiency Virus Type 1 (HIV-1) in a biological sample comprising:

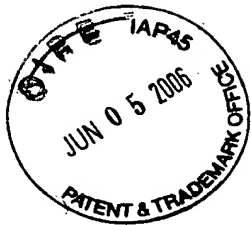
- (a) providing a cell-free supernatant of a biological fluid comprising cells infected with HIV-1, and
- (b) detecting HIV-1 nucleic acid present in said supernatant.

51. A method for preparing HIV-1 RNA for detecting the presence of nucleic acid of a Human Immunodeficiency Virus Type 1 (HIV-1) in a biological sample comprising:

- (a) providing a biological fluid comprising HIV-1 infected cells;
- (b) preparing a cell-free supernatant from the biological fluid; and
- (c) disrupting HIV-1 virions in the cell-free supernatant to release HIV-1 RNA.

52. The method of claim 51, further comprising detecting the HIV-1 RNA.





PATENT  
Customer No. 22,852  
Attorney Docket No. 3495.0010-24

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
March ALIZON et al. ) Group Art Unit: 1637  
Application No.: 08/475,822 ) Examiner: Jeffrey N. Fredman  
Filed: June 7, 1995 ) Confirmation No.: 4214  
)

For: CLONED DNA SEQUENCES  
RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-  
ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID  
LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**STATEMENT OF FRANÇOIS BRUN-VEZINET**  
**(Being Added As An Inventor)**

I have read U.S. application Serial No. 08/475,822.

I am informed that I was not named as an inventor in application Serial No. 08/475,822 when the application was filed in the U.S. Patent and Trademark Office.

I have been informed that the claims in U.S. application Serial No. 08/475,822 have been amended by adding claims 47, 51, and 52 to the application.

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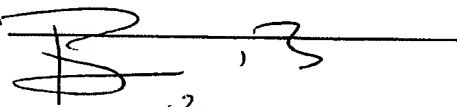
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FRANÇOISE BROWN VEZNER.  
By:   
Date: 30/05/06



U.S. Patent Application No. 08/475,822

Filed: June 7, 1995

Inventors: Marc ALIZON et al.

Div. of 07/158,652 (02/22/88);

Div. of 06/771,248 (08/30/85);

CIP of 07/999,410 (12/31/92);

Cont. of 07/499,210 (03/19/90);

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DI No. 84-37

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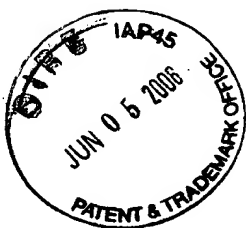
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PATENT  
Customer No. 22,852  
Attorney Docket No. 3495.0010-24

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Marc ALIZON et al. ) Group Art Unit: 1637  
Application No.: 08/475,822 ) Examiner: Jeffrey N. Fredman  
Filed: June 7, 1995 ) Confirmation No.: 4214  
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PROTEINS ENCODED BY SAID  
LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**STATEMENT OF CHRISTINE ROUZIOUX**  
**(Being Added As An Inventor)**

I have read U.S. application Serial No. 08/475,822.

I am informed that I was not named as an inventor in application Serial No.  
08/475,822 when the application was filed in the U.S. Patent and Trademark Office.

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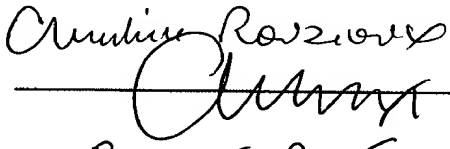
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By:   
Date: 30 05 2006

U.S. Patent Application No. 08/475,822  
Filed: June 7, 1995  
Inventors: Marc ALIZON et al.  
Div. of 07/158,652 (02/22/88);  
Div. of 06/771,248 (08/30/85);  
CIP of 07/999,410 (12/31/92);  
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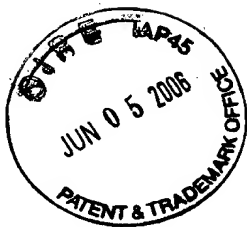
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52. The method of claim 51, further comprising detecting  
the HIV-1 RNA



PATENT  
Customer No. 22,852  
Attorney Docket No. 3495.0010-24

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Marc ALIZON et al.

Application No.: 08/475,822

Filed: June 7, 1995

)  
) Group Art Unit: 1637  
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) Examiner: Jeffrey N. Fredman  
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PROTEINS ENCODED BY SAID  
LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**STATEMENT OF LUC MONTAGNIER**  
**(Being Added As An Inventor)**

I have read U.S. application Serial No. 08/475,822.

I am informed that I was not named as an inventor in application Serial No. 08/475,822 when the application was filed in the U.S. Patent and Trademark Office.

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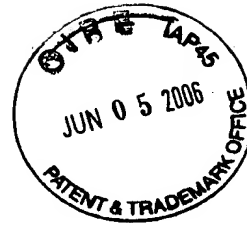
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By: 

Date: May 24 2006





U.S. Patent Application No. 08/475,822

Filed: June 7, 1995

Inventors: Marc ALIZON et al.

Div. of 07/158,652 (02/22/88);

Div. of 06/771,248 (08/30/85);

CIP of 07/999,410 (12/31/92);

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DI No. 84-37

Our Reference: 03495.0010-24000

### Pending Claims

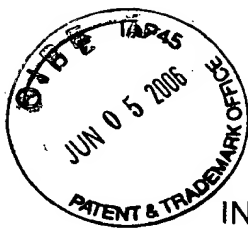
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PATENT  
Customer No. 22,852  
Attorney Docket No. 3495.0010-24

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Marc: ALIZON et al. ) Group Art Unit: 1637  
Application No.: 08/475,822 ) Examiner: Jeffrey N. Fredman  
Filed: June 7, 1995 ) Confirmation No.: 4214  
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LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**STATEMENT OF JEAN-CLAUDE CHERMANN**  
**(Being Added As An Inventor)**

I have read U.S. application Serial No. 08/475,822.

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By: Jean Claude Chermant

Date: May 26<sup>th</sup> 06



U.S. Patent Application No. 08/475,822

Filed: June 7, 1995

Inventors: Marc ALIZON et al.

Div. of 07/158,652 (02/22/88);

Div. of 06/771,248 (08/30/85);

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DI No. 84-37

Our Reference: 03495.0010-24000

### Pending Claims

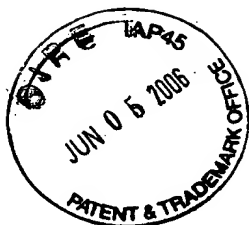
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PATENT  
Customer No. 22,852  
Attorney Docket No. 3495.0010-24

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
Marc ALIZON et al. ) Group Art Unit: 1637  
Application No.: 08/475,822 ) Examiner: Jeffrey N. Fredman  
Filed: June 7, 1995 ) Confirmation No.: 4214  
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PROTEINS ENCODED BY SAID  
LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**STATEMENT OF FRANÇOISE BARRE-SINOUSSE**  
**(Being Added As An Inventor)**

I have read U.S. application Serial No. 08/475,822.

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By:  \_\_\_\_\_

Date: 05.24.2006

U.S. Patent Application No. 08/475,822  
Filed: June 7, 1995  
Inventors: Marc ALIZON et al.  
Div. of 07/158,652 (02/22/88);  
Div. of 06/771,248 (08/30/85);  
CIP of 07/999,410 (12/31/92);  
Cont. of 07/499,210 (03/19/90);  
Cont. of 06/771,230 (08/30/85);  
CIP of 06/706,562 (02/28/85);  
CIP of 06/558,109 (012/05/83)  
DI No. 84-37  
Our Reference: 03495.0010-24000



Pending Claims

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the HIV-1 RNA



PATENT  
Customer No. 22,852  
Attorney Docket No. 3495.0010-24

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Application No.: 08/475,822 ) Examiner: Jeffrey N. Fredman  
Filed: June 7, 1995 ) Confirmation No.: 4214  
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PROTEINS ENCODED BY SAID )  
LAV GENOMIC RNA )

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**STATEMENT OF ROBERT C. GALLO**  
**(Being Added As An Inventor)**

I have read U.S. application Serial No. 08/475,822.

I am informed that I was not named as an inventor in application Serial No. 08/475,822 when the application was filed in the U.S. Patent and Trademark Office.

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By: Robert C. Gallo

Date: May 31, '06

U.S. Patent Application No. 08/475,822  
Filed: June 7, 1995  
Inventors: Marc ALIZON et al.  
Div. of 07/158,652 (02/22/88);  
Div. of 06/771,248 (08/30/85);  
CIP of 07/999,410 (12/31/92);  
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CIP of 06/558,109 (012/05/83)  
DI No. 84-37  
Our Reference: 03495.0010-24000



Pending Claims

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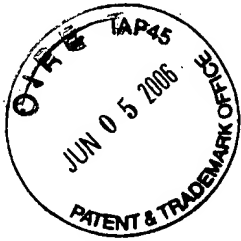
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PATENT  
Customer No. 22,852  
Attorney Docket No. 3495.0010-24

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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March ALIZON et al. ) Group Art Unit: 1637  
Application No.: 08/475,822 ) Examiner: Jeffrey N. Fredman  
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PROTEINS ENCODED BY SAID  
LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**STATEMENT OF MIKULAS POPOVIC**  
**(Being Added As An Inventor)**


I have read U.S. application Serial No. 08/475,822.

I am informed that I was not named as an inventor in application Serial No.  
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application Serial No. 08/475,822 to claim previously unclaimed subject matter.



I understand that I am being added as an inventor to U.S. application Serial No. 08/475,822.

I have been informed that my addition as an inventor to U.S. application Serial No. 08/475,822 is necessitated by the amendment of the claims by adding claims 47, 51, and 52 to the application.

The inventorship error resulting from the amendment of the claims by adding claims 47, 51, and 52 to U.S. application Serial No. 08/475,822 occurred without deceptive intention on my part.

I hereby declare that all statements made of my own knowledge and belief are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

By: Mikulas - Tjuri

Date: June 1, 2006

U.S. Patent Application No. 08/475,822  
Filed: June 7, 1995  
Inventors: Marc ALIZON et al.  
Div. of 07/158,652 (02/22/88);  
Div. of 06/771,248 (08/30/85);  
CIP of 07/999,410 (12/31/92);  
Cont. of 07/499,210 (03/19/90);  
Cont. of 06/771,230 (08/30/85);  
CIP of 06/706,562 (02/28/85);  
CIP of 06/558,109 (012/05/83)  
DI No. 84-37  
Our Reference: 03495.0010-24000



### Pending Claims

47. An *in vitro* diagnostic method for detecting the presence of nucleic acid of a Human Immunodeficiency Virus Type 1 (HIV-1) in a biological sample comprising:

(a) providing a cell-free supernatant of a biological fluid comprising cells infected with HIV-1, and

(b) detecting HIV-1 nucleic acid present in said supernatant.

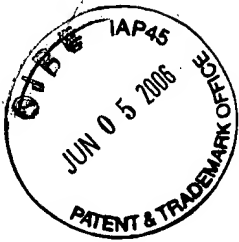
51. A method for preparing HIV-1 RNA for detecting the presence of nucleic acid of a Human Immunodeficiency Virus Type 1 (HIV-1) in a biological sample comprising:

(a) providing a biological fluid comprising HIV-1 infected cells;

(b) preparing a cell-free supernatant from the biological fluid; and

(c) disrupting HIV-1 virions in the cell-free supernatant to release HIV-1 RNA.

52. The method of claim 51, further comprising detecting the HIV-1 RNA.



PATENT  
Customer No. 22,852  
Attorney Docket No. 3495.0010-24

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
March ALIZON et al. ) Group Art Unit: 1637  
Application No.: 08/475,822 ) Examiner: Jeffrey N. Fredman  
Filed: June 7, 1995 ) Confirmation No.: 4214  
)

For: CLONED DNA SEQUENCES  
RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-  
ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID  
LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**STATEMENT OF MANGALASSERIL G. SARNGADHARAN**  
**(Being Added As An Inventor)**


I have read U.S. application Serial No. 08/475,822.

I am informed that I was not named as an inventor in application Serial No.  
08/475,822 when the application was filed in the U.S. Patent and Trademark Office.

I have been informed that the claims in U.S. application Serial No. 08/475,822  
have been amended by adding claims 47, 51, and 52 to the application.

I am informed that a copy of claims 47, 51, and 52 is attached hereto.

I have read claims 47, 51, and 52, which I am informed were added to U.S.  
application Serial No. 08/475,822 to claim previously unclaimed subject matter.



I understand that I am being added as an inventor to U.S. application Serial No. 08/475,822.

I have been informed that my addition as an inventor to U.S. application Serial No. 08/475,822 is necessitated by the amendment of the claims by adding claims 47, 51, and 52 to the application.

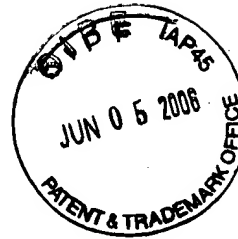
The inventorship error resulting from the amendment of the claims by adding claims 47, 51, and 52 to U.S. application Serial No. 08/475,822 occurred without deceptive intention on my part.

I hereby declare that all statements made of my own knowledge and belief are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

By: Mangalasseri G. Sarnagadharan

Date: June 4, 2006

U.S. Patent Application No. 08/475,822  
Filed: June 7, 1995  
Inventors: Marc ALIZON et al.  
Div. of 07/158,652 (02/22/88);  
Div. of 06/771,248 (08/30/85);  
CIP of 07/999,410 (12/31/92);  
Cont. of 07/499,210 (03/19/90);  
Cont. of 06/771,230 (08/30/85);  
CIP of 06/706,562 (02/28/85);  
CIP of 06/558,109 (012/05/83)  
DI No. 84-37  
Our Reference: 03495.0010-24000



### Pending Claims

47. An *in vitro* diagnostic method for detecting the presence of nucleic acid of a Human Immunodeficiency Virus Type 1 (HIV-1) in a biological sample comprising:

(a) providing a cell-free supernatant of a biological fluid comprising cells infected with HIV-1, and

(b) detecting HIV-1 nucleic acid present in said supernatant.

51. A method for preparing HIV-1 RNA for detecting the presence of nucleic acid of a Human Immunodeficiency Virus Type 1 (HIV-1) in a biological sample comprising:

(a) providing a biological fluid comprising HIV-1 infected cells;

(b) preparing a cell-free supernatant from the biological fluid; and

(c) disrupting HIV-1 virions in the cell-free supernatant to release HIV-1 RNA.

52. The method of claim 51, further comprising detecting the HIV-1 RNA.





PATENT  
Customer No. 22,852  
Attorney Docket No. 3495.0010-24

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
March ALIZON et al. ) Group Art Unit: 1637  
Application No.: 08/475,822 ) Examiner: Jeffrey N. Fredman  
Filed: June 7, 1995 ) Confirmation No.: 4214  
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For: CLONED DNA SEQUENCES  
RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-  
ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID  
LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**CONSENT OF ASSIGNEE INSTITUT PASTEUR  
TO AMENDMENT OF INVENTORSHIP**

Institut Pasteur, duly organized under the laws of France and having its principal place of business at 28, rue du Docteur Roux, 75724 Paris Cedex 15, France, as an Assignee of the above-identified application, does hereby consent to amendment of inventorship from the inventive entity:

Marc Alizon  
Pierre Sonigo  
Simon Wain-Hobson  
Stewart Cole  
Oliver Danos

to the inventive entity:

Solange Chamaret  
Claudine Axler-Blin  
Françoise Rey  
Marie-Therese Nugeyre  
Jacqueline Gruet  
Charles Dauguet  
Willy Rozenbaum  
Christine Rouzioux  
François Brun-Vezinet  
Luc Montagnier  
Jean-Claude Chermann  
Françoise Barre-Sinoussi  
Robert C. Gallo  
Mikulas Popovic  
Mangalasseril G. Sarngadharan

The undersigned is authorized to act on behalf of the Assignee, Institut Pasteur.

I hereby declare that all statements made of my own knowledge and belief are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

By: A. Dautry  
Name: Alice Dautry  
Title: President  
For Assignee: Institut Pasteur

Dated: \_\_\_\_\_

June 1<sup>st</sup> 2006



PATENT  
Customer No. 22,852  
Attorney Docket No. 3495.0010-24

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
March ALIZON et al. ) Group Art Unit: 1637  
Application No.: 08/475,822 ) Examiner: Jeffrey N. Fredman  
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For: CLONED DNA SEQUENCES  
RELATED TO THE GENOMIC RNA  
OF LYMPHADENOPATHY-  
ASSOCIATED VIRUS (LAV) AND  
PROTEINS ENCODED BY SAID  
LAV GENOMIC RNA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**CONSENT OF ASSIGNEE THE UNITED STATES OF AMERICA  
TO AMENDMENT OF INVENTORSHIP**

The United States of America as represented by the Secretary of the Department  
of Health and Human Services, having its principal place of business at 900 Rockville  
Pike, Bethesda, Maryland 20892, as an Assignee of the above-identified application,  
does hereby consent to amendment of inventorship from the inventive entity:

Marc Alizon  
Pierre Sonigo  
Simon Wain-Hobson  
Stewart Cole  
Oliver Danos

to the inventive entity:

Robert C. Gallo  
Mikulas Popovic  
Mangalasseril G. Sarngadharan  
Solange Chamaret  
Claudine Axler-Blin  
Françoise Rey  
Marie-Therese Nugeyre  
Jacqueline Gruet  
Charles Dauguet  
Willy Rozenbaum  
Christine Rouzioux  
François Brun-Vezinet  
Luc Montagnier  
Jean-Claude Chermann  
Françoise Barre-Sinoussi

The undersigned is authorized to act on behalf of the Assignee, the United States of America as represented by the Secretary of the Department of Health and Human Services.

I hereby declare that all statements made of my own knowledge and belief are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Respectfully submitted,

By: Jack Spiegel  
Name: JACK SPIEGEL (REG # 34,477)  
Title: SENIOR ADVISOR FOR TECHNOLOGY TRANSFER OPERATIONS  
For Assignee: The United States of America  
as represented by the  
Secretary of the Department of  
Health and Human Services.

Dated: JUNE 5, 2006

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